



FORM PTO-1	Atty. Docket No.: C382.12-0146	Appl. No.: 10/783,682
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor: Harvey A. Restaino et al.	
	Filing Date February 20, 2004	Group Art: 2838

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	AA	5,357,519	10/1994	Martin et al.	371	15.1
	AB	6,016,047	1/2000	Notten et al.	320	137
	AC	6,449,726	9/2002	Smith	713	340
	AD	6,215,275	4/2001	Bean	320	106
	AE	6,100,670	8/2000	Levesque	320	150
	AF	6,271,643	8/2001	Becker et al.	320	112
	AG					
	AH					
	AI					
	AJ					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SP	AK	GB 2 387 235 A	08.10.2003	United Kingdom		
SP	AL	WO 00/16083	23.03.00	WIPO		
SP	AM	WO 01/16614	08.03.2001	WIPO		
SP	AN	WO 01/16615	08.03.2001	WIPO		
	AO					

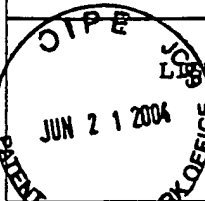
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	AP	Search Report from Application No. GB0421447.4
SB	AQ	Examination Report from Application No. GB0417678.0
SB	AR	Champlin et al., K. S., "Results of Discrete Frequency Immittance Spectroscopy (DFIS) Measurements of Lead Acid Batteries", INTELEC 2001, October 2001.

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FORM PTO-1449		Atty. Docket No.: C382.12-0146	Serial No.: 10/783,682
 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		Applicant: Harvey A. Restaino et al.	
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	AA	2,514,745	7/11/50	Dalzell	171	95
	AB	3,593,099	7/13/71	Scholl	320	13
	AC	3,607,673	9/21/71	Seyl	204	1
	AD	3,676,770	7/11/72	Sharaf et al.	324	29.5
	AE	3,729,989	5/1/73	Little	73	133
	AF	3,753,094	8/14/73	Furuishi et al.	324	29.5
	AG	3,808,522	4/30/74	Sharaf	324	29.5
	AH	3,811,089	5/14/74	Strezelewicz	324	170
	AI	3,873,911	3/25/75	Champlin	324	29.5
	AJ	3,886,443	5/27/75	Miyakawa et al.	324	29.5
	AK	3,889,248	6/10/75	Ritter	340	249
	AL	3,906,329	9/16/75	Bader	320	44

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	AM	59-17892	1/30/84	Japan		Abstract Only
SB	AN	59-17893	1/30/84	Japan		Abstract Only
SB	AO	59-17894	1/30/84	Japan		Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	AP	"Electrochemical Impedance Spectroscopy in Battery Development and Testing", Batteries International, April 1997, pgs. 59 and 62-63.				
SB	AQ	"Battery Impedance", by E. Willihnganz et al., Electrical Engineering, September 1959, pgs. 922-925.				
SB	AR	"Determining The End of Battery Life", by S. DeBardelaben, IEEE, 1986, pgs. 365-368.				
SB	AS	"A Look at the Impedance of a Cell", by S. DeBardelaben, IEEE, 1988, pgs. 394-397.				

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	AT 3,909,708	9/30/75	Champlin	324	29.5	
SB	AU 3,936,744	2/3/76	Perlmutter	324	158	
SB	AV 3,946,299	3/23/76	Christianson et al.	320	43	
SB	AW 3,947,757	3/30/76	Grube et al.	324	28	
SB	AX 3,969,667	7/13/76	McWilliams	324	29.5	
SB	AY 3,979,664	9/7/76	Harris	324	17	
SB	AZ 3,984,762	10/5/76	Dowgiallo, Jr.	324	29.5	
SB	BA 3,984,768	10/5/76	Staples	324	62	
SB	BB 4,008,619	2/22/77	Alcaide et al.	73	398	
SB	BC 4,053,824	10/11/77	Dupuis et al.	324	29.5	
SB	BD 4,070,624	1/24/78	Taylor	327	158	
SB	BE 4,086,531	4/25/78	Bernier	324	158	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	BF	60225078	11/9/85	Japan			Abstract Only
SB	BG	04372536	12/25/92	Japan			Abstract Only
SB	BH	04131779	5/6/92	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	BI	"The Impedance of Electrical Storage Cells", by N.A. Hampson et al., <u>Journal of Applied Electrochemistry</u> , 1980, pgs. 3-11.
SB	BJ	"A Package for Impedance/Admittance Data Analysis", by B. Boukamp, <u>Solid State Ionics</u> , 1986, pgs. 136-140.
SB	BK	"Precision of Impedance Spectroscopy Estimates of Bulk, Reaction Rate, and Diffusion Parameters", by J. Macdonald et al., <u>J. Electroanal. Chem.</u> , 1991, pgs. 1-11.

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06/29/05

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	BL	4,112,351	9/5/78	Back et al.	324	16
	BM	4,114,083	9/12/78	Benham et al.	320	39
	BN	4,126,874	11/21/78	Suzuki et al.	354	60
	BO	4,178,546	12/11/79	Hulls et al.	324	158
	BP	4,193,025	3/11/80	Frailing et al.	324	427
	BQ	4,207,611	6/10/80	Gordon	364	580
	BR	4,315,204	2/9/82	Sievers et al.	322	28
	BS	4,316,185	2/16/82	Watrous et al.	340	636
	BT	4,322,685	3/30/82	Frailing et al.	324	429
	BU	4,363,407	12/14/82	Barkler et al.	209	3.3
	BV	4,369,407	1/18/83	Korbell	324	416
SB	BW	4,412,169	10/25/83	Dell'Orto	320	64

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	BX	03282276	12/12/91	Japan		Abstract Only
	BY	03274479	12/5/91	Japan		Abstract Only
	BZ	5216550	8/27/93	Japan		Abstract Only
SB	CA	59017894	1/30/84	Japan		Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	CB	"Internal Resistance: Harbinger of Capacity Loss in Starved Electrolyte Sealed Lead Acid Batteries, by Vaccaro, F.J. et al., <u>AT&T Bell Laboratories</u> , 1987 IEEE, Ch. 2477, pp. 128,131.
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	CC	4,390,828	6/28/83	Converse et al.	320	32
	CD	4,392,101	7/5/83	Saar et al.	320	20
	CE	4,396,880	8/2/83	Windebank	320	21
	CF	4,408,157	10/4/83	Beaubien	324	62
	CG	4,423,378	12/27/83	Marino et al.	324	427
	CH	4,423,379	12/27/83	Jacobs et al.	324	429
	CI	4,424,491	1/3/84	Bobbett et al.	324	433
	CJ	4,459,548	7/10/84	Lentz et al.	324	158
	CK	4,514,694	4/30/85	Finger	324	429
	CL	4,520,353	5/28/85	McAuliffe	340	636
	CM	4,667,279	5/19/87	Maier	363	46
	CN	4,678,998	7/7/87	Muramatsu	324	427
	CO	4,679,000	7/7/87	Clark	324	428
	CP	4,697,134	9/29/87	Burkum et al.	320	48

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	CQ	EP 0 772 056 A1	5/7/97	EPO		X
SB	CR	EP 0 637 754 A1	2/8/95	EPO		X
SB	CS	2 088 159 A	6/3/82	Great Britain		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	CT	IEEE Recommended Practice For Maintenance, Testings, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, <u>The Institute of Electrical and Electronics Engineers, Inc., ANSI/IEEE Std. 450-1987, 3/9/1987, pp. 7-15.</u>
SB	CU	"Field and Laboratory Studies to Assess the State of Health of Valve-Regulated Lead Acid Batteries: Part I Conductance/Capacity Correlation Studies", by D. Feder et al., <u>IEEE</u> , August 1992, pgs. 218-233.

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	CV	4,707,795	11/17/87	Alber et al.	364	550
	CW	4,709,202	11/24/87	Koenck et al.	320	43
	CX	4,710,861	12/1/87	Kanner	363	46
	CY	4,719,428	1/12/88	Liebermann	324	436
	CZ	4,743,855	5/10/88	Randin et al.	324	430
	DA	4,816,768	3/28/89	Champlin	324	428
	DB	4,820,966	4/11/89	Fridman	320	32
	DC	4,825,170	4/25/89	Champlin	324	436
	DD	4,849,700	7/18/89	Morioka et al.	324	427
	DE	4,881,038	11/14/89	Champlin	324	426
	DF	4,912,416	3/27/90	Champlin	324	430
	DG	4,929,931	5/29/90	McCuen	340	636
	DH	4,931,738	6/5/90	MacIntyre et al.	324	435
	DI	4,947,124	8/7/90	Hauser	324	430
	DJ	4,956,597	9/11/90	Heavey et al.	320	14
SA	DK	4,968,941	11/6/90	Rogers	324	428

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	DL	WO 93/22666	11/11/93	WIPO		X
SB	DM	WO 98/58270	12/23/98	WIPO		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	DN	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.				
SB	DO	"JIS Japanese Industrial Standard-Lead Acid Batteries for Automobiles", <u>Japanese Standards Association UDC</u> , 621.355.2:629.113.006, Nov. 1995.				

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	DP 5,004,979	4/2/91	Marino et al.	324	160	
	DQ 5,032,825	7/16/91	Xuznicki	340	636	
	DR 5,047,722	9/10/91	Wurst et al.	324	430	
	DS 5,087,881	2/11/92	Peacock	324	378	
	DT 5,126,675	6/30/92	Yang	324	435	
	DU 5,140,269	8/18/92	Champlin	324	433	
	DV 5,144,248	9/1/92	Alexandres et al.	324	428	
	DW 5,170,124	12/8/92	Blair et al.	324	434	
	DX 5,204,611	4/20/93	Nor et al.	320	21	
	DY 5,214,370	5/25/93	Harm et al.	320	35	
	DZ 5,214,385	5/25/93	Gabriel et al.	324	434	
	EA 5,241,275	8/31/93	Fang	324	430	
	EB 5,254,952	10/19/93	Salley et al.	324	429	
	EC 5,281,919	1/25/94	Palanisamy	324	427	
	ED 5,281,920	1/25/94	Wurst	324	430	
	EE 5,295,078	3/15/94	Stich et al.	364	483	
	EF 5,298,797	3/29/94	Redl	307	246	
	EG 5,300,874	4/5/94	Shimamoto et al.	320	15	
	EH 5,302,902	4/12/94	Groehl	324	434	

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
8B	EK	5,331,268	7/19/94	Patino et al.	320	20
	EL	5,336,993	8/9/94	Thomas et al.	324	158.1
	EM	5,352,968	10/4/94	Reni et al.	320	35
	EN	5,343,380	8/30/94	Champlin	363	46
	EO	5,365,160	11/15/94	Leppo et al.	320	22
	EP	5,365,453	11/15/94	Startup et al.	364	481
	EQ	5,381,096	1/10/95	Hirzel	324	427
	ER	5,426,371	6/20/95	Salley et al.	324	429
	ES	5,432,426	7/11/95	Yoshida	320	20
	ET	5,434,495	7/18/95	Toko	320	44
	EU	5,442,274	8/15/95	Tamai	320	23
	EV	5,457,377	10/10/95	Jonsson	320	5
	EW	5,449,996	9/12/95	Matsumoto et al.	320	20
	EX	5,449,997	9/12/95	Gilmore et al.	320	39
	EY	5,485,090	1/16/96	Stephens	324	433
	EZ	5,519,383	5/21/96	De La Rosa	340	636
	FA	5,528,148	6/18/96	Rogers	324	426
	FB	5,550,485	8/27/96	Falk	324	772
8	FC	5,561,380	10/1/96	Sway-Tin et al.	324	509

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SD	PF	5,562,501	10/8/96	Kinoshita et al.	439	852
	FG	5,572,136	11/5/96	Champlin	324	426
	PH	5,574,355	11/12/96	McShane et al.	320	39
	PI	5,585,728	12/17/96	Champlin	324	427
	FJ	5,592,093	1/7/97	Klingbiel	324	426
	FK	5,596,260	1/21/97	Moravec et al.	320	30
	FL	5,598,098	1/28/97	Champlin	324	430
	FM	5,602,462	2/11/97	Stich et al.	323	258
	FN	5,606,242	2/25/97	Hull et al.	320	48
	FO	5,621,298	4/15/97	Harvey	320	5
	FP	5,642,031	6/24/97	Brotto	320	21
	FQ	5,650,937	7/22/97	Bounaga	364	483
	FR	5,652,501	7/29/97	McClure et al.	320	17
	FS	5,675,234	10/7/97	Greene	320	15
	FT	5,677,077	10/14/97	Faulk	429	90
	FU	5,699,050	12/16/97	Kanazawa	340	636
	FV	5,701,089	12/23/97	Perkins	327	772
	FW	5,717,336	2/10/98	Basell et al.	324	430
G	FX	5,757,192	5/26/98	McShane et al.	324	427

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SB	GA	5,773,978	6/30/98	Becker	324	430
	GB	5,789,899	8/4/98	van Phuoc et al.	320	30
	GC	5,793,359	8/11/98	Ushikubo	345	169
	GD	5,821,756	10/13/98	McShane et al.	324	430
	GE	5,831,435	11/3/98	Troy	324	426
	GF	5,872,443	2/16/99	Williamson	320	21
	GG	5,914,605	6/22/99	Bertness	324	430
	GH	5,945,829	8/31/99	Bertness	324	430
	GI	3,356,936	12/5/67	Smith	324	29.5
	GJ	5,488,300	1/30/96	Jamieson	324	432
	GK	6,002,238	12/14/99	Champlin	320	134
	GL	6,037,777	3/14/00	Champlin	324	430
	GM	6,051,976	4/18/00	Bertness	324	426
	GN	6,081,098	6/27/00	Bertness et al.	320	134
	GO	6,091,245	7/18/00	Bertness	324	426
	GP	6,104,167	8/15/00	Bertness et al.	320	132
SB	GQ	6,137,269	10/24/00	Champlin	320	150

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	GR	DE 29 26 716 B1	1/15/81	Germany		X
SB	GS	0 022 450 A1	1/21/81	EPO		X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	GT	"Performance of Dry Cells", by C. Hambuechen, Preprint of <u>Am. Electrochem. Soc.</u> , April 18-20, 1912, paper No. 19, pgs. 1-5.
SB	GU	"A Bridge for Measuring Storage Battery Resistance", by E. Willihncanz, <u>The Electrochemical Society</u> , preprint 79-20, April 1941, pgs. 253-258.

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SB	GV	3,562,634	2/9/71	Latner	31	04
	GW	4,379,990	4/12/83	Sievers et al.	322	99
	GX	5,144,218	9/1/92	Bosscha	320	44
	GY	5,315,287	5/24/94	Sol	340	455
	GZ	5,469,043	11/21/95	Cherng et al.	320	31
	HA	5,546,317	8/13/96	Andrieu	364	481
	HB	5,583,416	12/10/96	Klang	320	22
	HC	5,589,757	12/31/96	Klang	320	22
	HD	5,656,920	8/12/97	Cherng et al.	320	31
	HE	5,710,503	1/20/98	Sideris et al.	320	6
	HF	5,760,587	6/2/98	Harvey	324	434
	HG	5,808,469	9/15/98	Kopera	324	43.4
	HH	6,008,652	12/28/99	Theofanopoulos et al.	324	434
	HI	6,009,369	12/28/99	Boisvert et al.	701	99
	HJ	6,031,354	2/29/00	Wiley et al.	320	116
	HK	6,037,751	3/14/00	Klang	320	160
	HL	6,072,299	6/6/00	Kurie et al.	320	112
	HM	6,094,033	7/25/00	Ding et al.	320	132
	HN	6,163,156	12/19/00	Bertness	324	426
	HO	6,172,483	1/9/01	Champlin	320	134
	HP	6,172,505	1/9/01	Bertness	324	430

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	HQ	2 749 397	12/5/97	France		X
SD	HR	59215674	12/5/84	Japan		Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	HS	
EXAMINER:	DATE CONSIDERED: 12/15/05	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	Atty. Docket No.: C382.12-0146	Serial No.: 10/783,682
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: Harvey A. Restaino et al.	
	Filing Date February 20, 2004	Group Art: 2838

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	HT	3,989,544	11/2/76	Santo	429	65
	HU	4,745,349	5/17/88	Palanisamy et al.	320	22
	HV	4,876,495	10/24/89	Palanisamy et al.	320	18
	HW	4,937,528	6/26/90	Palanisamy	324	430
	HX	4,968,942	11/6/90	Palanisamy	324	430
	HY	5,179,335	1/12/93	Nor	320	21
	HZ	5,266,880	11/30/93	Newland	320	14
	IA	5,451,881	9/19/95	Finger	324	433
	IB	5,705,929	1/6/98	Caravello et al.	324	430
	IC	5,717,937	2/10/98	Fritz	395	750.01
	ID	5,862,515	1/19/99	Kobayashi et al.	702	63
	IE	5,895,440	4/20/99	Proctor et al.	702	63
	IF	5,929,609	7/27/99	Joy et al.	322	25
	IG	6,072,300	6/6/00	Tsuji	320	116
	IH	4,659,977	4/21/87	Kissel et al.	320	64
	II	4,913,116	4/3/90	Katogi et al.	123	425
	IJ	5,160,881	11/3/92	Schramm et al.	322	7
	IK	5,338,515	8/16/94	Dalla Betta et al.	422	95
	IL	5,537,967	7/23/96	Tashiro et al.	123	792.1
	IM	5,548,273	8/20/96	Nicol et al.	340	439
	IN	5,747,909	5/5/98	Syverson et al.	310	156

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	IO	62-180284	8/7/87	Japan		Abstract
SB	IP	7-128414	5/19/95	Japan		Abstract

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

IQ	
EXAMINER:	DATE CONSIDERED: 06/19/05

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	IR 6,114,834	9/5/00	Parise	320	109	
	IS 6,150,793	11/21/00	Lesesky et al.	320	104	
	IT 3,876,931	4/8/75	Godshalk	324	29.5	
	IU 5,347,163	9/13/94	Yoshimura	307	66	
	IV 5,939,861	8/17/99	Joko et al.			
	IW 5,339,018	8/16/94	Brokaw	320	35	
	IX 5,412,323	5/2/95	Kato et al.	324	429	
	IY 5,426,416	6/20/95	Jefferies et al.	340	664	
	IZ 5,825,174	10/20/98	Parker	324	106	
	JA 5,939,855	8/17/99	Proctor et al.	320	104	
	JB 5,254,952	10/19/93	Salley et al.	324	429	
	JC 4,217,645	8/12/80	Barry et al.	364	483	
	JD 4,633,418	12/30/86	Bishop	364	554	
	JE 5,321,626	6/14/94	Palladino	364	483	
	JF 5,969,625	10/19/99	Russo	340	636	
	JG 6,222,369	4/24/01	Champlin	324	430	
	JH 6,225,808	5/1/01	Varghese et al.	324	426	
	JI 6,249,124	6/19/01	Bertness	324	426	
	JJ 6,259,254	7/10/01	Klang	324	427	
	JK 6,262,563	7/17/01	Champlin	320	134	
	JL 6,294,896	9/25/01	Champlin	320	134	
	JM 6,294,897	9/25/01	Champlin	320	153	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	JN	4-8636	1/13/92	Japan			X (Abstract)
SB	JO	63027776	2/5/88	Japan			Abstract Only

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	JP 4,379,989	4/12/83	Kurz et al.	320	26	
	JQ 4,680,528	7/14/87	Mikami et al.	320	32	
	JR 5,633,985	5/27/97	Severson et al.	395	2.76	
	JS 5,739,667	4/14/98	Matsuda et al.	320	5	
	JT 4,024,953	5/1977	Nailor, III	206	344	
	JU 6,250,973	6/2001	Lowery et al.	439	763	
	JV 6,254,438	7/2001	Gaunt	439	755	
	JW 6,304,087	10/16/01	Bertness	324	426	
	JX 6,310,481	10/30/01	Bertess	324	430	
	JY 6,313,607	11/6/01	Champlin	320	132	
	JZ 6,313,608	11/6/01	Varghese et al.	32	132	
	KA 6,316,914	11/13/01	Bertness	320	134	
	KB 5,435,185	7/25/95	Eagan	73	587	
	KC 5,445,026	8/29/95	Eagan	73	591	
	KD 4,667,143	5/19/87	Cooper et al.	320	22	
	KE 4,847,547	7/11/89	Eng, Jr. et al.	320	35	
	KF 5,574,355	11/12/96	McShane et al.	320	39	
SB	KG 4,663,580	5/5/87	Wortman	320	35	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	KH WO 99/23738	5/14/99	WIPO			X
SB	KI WO 94/05069	3/3/94	PCT			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	KJ	National Semiconductor Corporation, "High Q Notch Filter", 3/69, Linear Brief 5, March 1969.
SB	KK	Burr-Brown Corporation, "Design A 60 Hz Notch Filter with the UAF42", 1/94, AB-071, 1994.
SB	KL	National Semiconductor Corporation, "LMF90-4 th -Order Elliptic Notch Filter", 12/94, RRD-B20M115, December 1994.

EXAMINER:

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	KM	6,323,650	11/27/01	Bertness et al.	324	426
	KN	6,329,793	12/11/01	Bertness et al.	320	132
	KO	6,331,762	12/18/01	Bertness	320	134
	KP	6,332,113	12/18/01	Bertness	702	63
	KQ	4,297,639	10/27/81	Branham	324	429
	KR	5,653,659	8/5/97	Kunibe et al.	477	111
	KS	6,161,640	12/19/00	Yamaguchi	180	65.8
	KT	4,351,405	6/28/82	Fields et al.	180	65
	KU	6,359,441	3/16/02	Bertness	324	426
	KV	4,047,091	9/1997	Hutchines et al.	363	59
	KW	5,653,659	8/1997	Kunibe et al.	477	111
	KX	5,637,978	6/1997	Kellett et al.	320	2
	KY	5,095,223	3/1992	Thomas	307	110
	KZ	5,194,799	3/1993	Tomantschger	320	2
	LA	5,754,417	5/1998	Nicollini	363	60
	LB					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
LC						
LD						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LE	"Alligator Clips with Wire Penetrators" J.S. Popper, Inc. product information, downloaded from http://www.jspopper.com/ , undated
LF	"#12: LM78S40 Simple Switcher DC to DC Converter", ITM e-Catalog, downloaded from http://www.pcbcafe.com , undated
LG	"Simple DC-DC Converts Allows Use of Single Battery", <u>Electronix Express</u> , downloaded from http://www.elexp.com/t_dc-dc.htm , undated

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SPB	LH	5,818,234	10/1998	McKinnon	324	433
	LI	6,140,797	10/2000	Dunn	320	105
	LJ	6,181,545	1/2001	Amatucci et al.	361	502
	LK	6,346,795	2/2002	Haraguchi et al.	320	136
	LM	6,347,958	2/2002	Tsai	439	488
	LN	6,351,102	2/26/02	Troy	320	139
	LO	6,359,441	3/19/02	Bertness	324	426
	LP	6,363,303	3/26/02	Bertness	701	29
	LQ	5,037,778	8/6/91	Stark et al.	437	216
	LR	6,144,185	11/7/00	Dougherty et al.	320	132
	LS	5,711,648	1/27/98	Hammerslag	414	786
	LT	5,927,938	7/27/99	Hammerslag	414	809
	LU	5,951,229	9/14/99	Hammerslag	414	398
	LV	5,961,561	10/5/99	Wakefield, II	701	29
	LW	5,961,604	10/5/99	Anderson et al.	709	229
	LX	6,236,332	5/22/01	Conkright et al.	340	825.06
	LY	6,351,102	2/26/02	Troy	320	139
	LZ	5,821,757	10/13/98	Alvarez et al.	324	434
MA	MA	6,167,349	12/26/00	Alvarez	702	63

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
MB						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SPB	MC	"DC-DC Converter Basics", Power Designers, downloaded from http://www.powederdesigners.com/InforWeb.design_center/articles/DC-DC/converter.shtm , undated
	MD	

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	ME 4,665,370	5/1987	Holland	324	429	
	MF 4,361,809	11/1982	Bil et al.	324	426	
	MG 6,392,414	5/21/02	Bertness	324	429	
	MH 6,417,669	7/9/02	Champlin	324	426	
	MI 6,424,158	7/23/02	Klang	324	433	
	MJ 6,441,585	8/17/02	Bertness	320	132	
	MK 6,445,158	9/3/02	Bertness et al.	320	104	
	ML 6,384,608	5/7/02	Namaky	324	425	
	MM 6,388,448	5/14/02	Cervas	324	426	
	MN 6,307,349	10/23/01	Koenck et al.	320	112	
	MO 6,411,098	6/25/02	Laletin	324	436	
	MP 6,456,045	9/24/02	Troy et al.	320	139	
	MQ 6,466,025	10/15/02	Klang	324	429	
	MR 6,466,026	10/15/02	Champlin	324	430	
	MS 4,564,798	1/14/86	Young	320	6	
	MT 5,563,496	10/8/96	McClure	320	48	
	MU 5,796,239	8/18/98	van Phuoc et al.	320	107	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	MV RU 2089015-C1	8/27/97	Russia			Abstract Only
SB	MW 09061505	3/7/97	Japan			Abstract Only
SB	MX 10056744	2/24/98	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SB	MY	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US02/29461.
SB	MZ	"Notification of Transmittal of The International Search Report or the Declaration" PCT/US03/07546.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SB	NA 4,888,716	12/19/89	Ueno	364	550	
	NB 6,495,990 B2	12/17/02	Champlin	320	132	
	NC 4,385,269	5/24/83	Aspinwall et al.	320	14	
	ND 4,686,442	8/11/87	Radomski	320	17	
	NE 6,061,638	5/9/00	Joyce	702	63	
	NF 6,359,442	3/19/02	Henningson et al.	324	426	
	NG 5,541,489	7/30/96	Dunstan	320	2	
	NH 6,424,157	7/23/02	Gollomp et al.	324	430	
	NI 6,534,993	3/18/03	Bertness	324	433	
	NJ 6,544,078	4/8/03	Palmisano et al.	439	762	
	NK 6,556,019	4/29/03	Bertness	324	426	
	NL 6,566,883	5/20/03	Vonderhaar et al.	324	426	
	NM 6,586,941	7/1/03	Bertness et al.	324	426	
	NN 6,597,150	7/22/03	Bertness et al.	320	104	
	NO 2002/0171428	11/21/02	Bertness	324	426	
	NP 6,263,268	7/17/01	Nathanson	701	29	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	NQ WO 00/67359	11/9/00	WIPO			X
SB	NR WO 01/51947	7/19/01	WIPO			X
SB	NS WO 98/04910	2/5/98	WIPO			X
SB	NT WO 00/62049	10/19/00	WIPO			X
	NU					
	NV					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SP	NW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/06577.
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EXAMINER:

DATE CONSIDERED: 6/29/05

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SD	OA 5,410,754	4/1995	Klotzbach et al.	370	85.13	
	OB 5,654,623	8/1997	Shiga et al.	320	48	
	OC 6,055,468	4/2000	Kaman et al.	701	29	
	OD 2003/0025481	2/2003	Bertness	320	155	
	OE 5,313,152	5/1994	Wozniak et al.	320	118	
	OF 2003/0184306	10/2003	Bertness et al.	324	426	
	OG 2004/0000891	1/2004	Raichle et al.	320	107	
	OH 3,750,011	7/1973	Kreps	324	29.5	
	OI 5,159,272	10/1992	Rao et al.	324	429	
	OJ 5,325,041	6/1994	Briggs	320	44	
	OK 6,526,361	2/2003	Jones et al.	702	63	
	OL 6,667,624	12/2003	Raichle et al.	324	522	
	OM 2002/0010558	1/24/02	Bertness et al.	702	63	
	ON 2002/0176010	11/28/02	Wallach et al.	348	229.1	
	OO 3,652,341	3/28/1972	Halsall et al.	136	176	
SD	OP 5,747,967	5/5/1998	Muljadi et al.	320	39	

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
SB	OQ	JP 11103503 A	4/1999	Japan			X (Abstract)
SB	OR	WO 01/59443	2/9/01	WIPO			X
SB	OS	GB 2 246 916 A	10/8/90	Great Britian			
	OT						
	OU						
	OV						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SD	OW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07837.
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SPB	OA 6,628,011	9/30/03	Droppo et al.	307	43	
	OB 5,780,980	7/14/98	Naito	318	139	
	OC 5,412,308	5/2/95	Brown	323	267	
	OD 6,222,342	4/24/01	Eggert et al.	320	105	
	OE 6,679,212	1/20/04	Kelling	123	179.28	
	OF 5,850,113	12/15/98	Weimer et al.	307	125	
	OG 6,242,887	6/5/01	Burke	320	104	
	OH 6,238,253	5/29/01	Qualls	439	759	
	OI 4,056,764	11/1/77	Endo et al.	320	3	
	OJ 6,005,759	12/21/99	Hart et al.	361	66	
	OK 6,064,372	5/16/00	Kahkoska	345	173	
	OL 5,323,337	6/21/94	Wilson et al.	364	574	
	OM 5,978,805	11/2/99	Carson	707	10	
	ON 6,600,815	7/29/03	Walding	379	93.07	
	OO 4,933,845	6/12/90	Hayes	364	200	
	OP 6,618,644	9/9/03	Bean	700	231	

FOREIGN PATENT DOCUMENTS

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
SP	OA 5,982,138	11/9/99	Krieger	320	105	
	OB 4,620,767	11/4/86	Woolf	339	255	
	OC 4,934,957	6/19/90	Bellusci	439	504	
	OD 5,772,468	6/30/98	Kowalski et al.	439	506	
	OE 5,108,320	4/28/92	Kimber	439	883	
	OF 5,453,027	9/26/95	Buell et al.	439	433	
	OG 5,865,638	2/2/99	Trafton	439	288	
	OH 3,796,124	3/12/74	Crosa	85	36	
	OI 4,280,457	7/28/81	Bloxham	123	198	
	OJ 4,160,916	7/10/79	Papasideris	307	10	
	OK 6,356,042	3/12/02	Kahlon et al.	318	138	
	OL 6,259,170	7/10/01	Limoge et al.	307	10.8	
	OM 6,081,109	6/27/00	Seymour et al.	324	127	
	ON 6,031,368	2/29/00	Klippel et al.	324	133	
	OO 6,211,651	4/3/01	Nemoto	320	133	
	OP 6,046,514	4/4/00	Rouillard et al.	307	77	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	OQ					
	OR					
	OS					
	OT					
	OU					
	OV					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OW	"Notification of Transmittal of The International Search Report or the Declaration" PCT/US03/41561.
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	Filing Date February 20, 2004	Group Art: 2838

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
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	OB 4,023,882	5/17/77	Pettersson	339	96	
	OC 2,000,665	5/7/35	L.P. Neal	173	324	
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	OE 5,745,044	4/28/98	Hyatt, Jr. et al.	340	825.31	
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